

First Oxford-Notre Dame-Bonn Workshop on the Foundations of Spacetime Theories

3rd-4th September 2019

Pembroke College, Oxford

Tuesday 3rd September

9:00-10:30

Nic Teh (Notre Dame)

Diffeomorphism symmetry and the empirical content of general relativity

10:30-11:00

Coffee

11:00-12:30

Oliver Pooley (Oxford)

The dynamical approach: Confessions of an apostate

12:30-14:00

Lunch

14:00-15:30

Tushar Menon (Oxford and Cambridge)

New work on the dynamical approach, modelling, and subsystems

15:30-16:00

Tea

16:00-17:00

Nic Teh (Notre Dame) and Dennis Lehmkuhl (Bonn)

Discussion: The Noether-Hilbert-Einstein-Klein correspondence

Wednesday 4th September

9:00-10:30

James Read (Oxford)

Brans-Dicke, Weyl geometry, and teleparallelisation: Joining the dots in the space of spacetime theories

10:30-11:00

Coffee

11:00-12:30

Dennis Lehmkuhl (Bonn)

The Einstein-Weyl correspondence and geodesic theorems for new types of spacetimes

12:30-14:00

Lunch

14:00-15:30

Niels Linnemann (Geneva)

Weyl's theorem and the operational significance of the metric field in general relativity

15:30-16:00

Tea

16:00-17:30

Niels Martens (Aachen and Bonn)

Dark matter = modified gravity? Scrutinising the spacetime-matter distinction through the modified gravity/dark matter lens